

CHAPTER 2

ALFA COMPANY SHOPS SUPERVISOR

In a Naval Mobile Construction Battalion (NMCB), the equipment maintenance branch is composed of four sections: administrative, automotive repair, heavy equipment repair, and support shops. These sections, or shops, come under the overall supervision of the maintenance supervisor, who is normally a CMCS. As a CM1, you may be assigned as an inspector or a shop supervisor in any one of these shops within the maintenance branch. In small units (CBMUs, BMUs, and so forth) and large detachments, it is common to have a CM1 working as the maintenance supervisor.

In your role as shop supervisor, inspector, or maintenance supervisor, you will not only need to call upon all of your past experience, but also you will have to be constantly alert for new ideas and ways of accomplishing your mission within the time frames allotted. Of course, skillful predeployment planning is essential; but deployments rarely go according to plan, especially with equipment. Remember, in addition to facing unusual maintenance problems not encountered at a public works duty station, you must be ready to pack your gear and mount out at any given moment.

This chapter describes the composition of different equipment maintenance branch shops and small units. It describes the duties and responsibilities you will be expected to perform. Remember, these duties and responsibilities may vary in each battalion, small unit, or detachment. Assignments are made by the maintenance supervisor.

One of the most important tasks is to stay abreast of developments in equipment maintenance. Here are some publications to consult that will help you keep up to date: *Naval Construction Force Manual*, NAVFAC P-315; *Naval Construction Force Equipment Management Manual*, NAVFAC P-404; *Naval*

Construction Force Safety Manual (COMCB-PAC/COMCBLANTINST 5100.1 series); COMCBPAC/COMCBLANT and NAVFACINST 11200 series; Civil Engineer Support Office Maintenance Bulletins; Equipment Officer Technical Bulletins; and Equipment Officer Modification Work Orders.

SETTING UP A MAINTENANCE BRANCH

Currently most areas that Naval Construction Force (NCF) units, especially Mobile Construction Battalions (MCBs), deploy to, have maintenance facilities already in place. Normally only upgrading and maintenance of these areas is required. However, during a contingency, your unit could go into an area without any facilities. In this instance you will be required to assist the maintenance supervisor in setting up the maintenance branch. In the event that you are attached to a small unit as the senior CM (maintenance supervisor), it will be up to you to set up the maintenance branch and make it operational.

AREA SELECTION

The number and types of vehicles to be maintained are an important consideration in selecting the area, determining the size of the shop, and in laying out the shop. Placement is most important. If possible, avoid locating the shop in a low-lying area. Select a site large enough to allow for expansion, near the center of activity where there are existing roadways and parking areas. Proper layout will reduce maintenance bottlenecks and induce equipment to flow through the shop. You can obtain more information on the physical arrangement of buildings from the *Facilities Planning Guide*, NAVFAC P-437, especially in chapter 1.

HEAT, LIGHT, AND VENTILATION

Heat, light, and ventilation for a large, permanent maintenance shop are included in the plan specification. However, the installation of these facilities in the small or temporary shop depends on the maintenance supervisor.

The decision of whether to heat your shop depends upon its geographical location. Heaters should be arranged to provide warmth where it is most needed. Persons working at benches or in the shop store require more heat than people working in the main shop for comparatively short periods. For this reason, you should place heaters in corners convenient to workbenches and away from shop doors.

For adequate lighting, most maintenance shops depend upon lights arranged in the overhead of the main shop, lights and windows near the workbenches, and extension lights that can be plugged into electrical outlets. When you are in charge of setting up a maintenance shop, make sure that enough electrical outlets are provided for extension lights and electric power tools. Only the most elaborate shops have enough windows for efficient lighting.

Removing exhaust gases becomes a big problem in every maintenance shop. Large doors in the front and rear of the shop and windows at the workbenches normally supply all the fresh air needed, but even these are inadequate to remove excessive amounts of exhaust gases. These gases rise and are trapped in the shop overhead unless roof openings with ventilating fans are provided. Normally, it is up to the supervisor of a temporary shop to provide his own method of ventilation. A piece of flexible steel or neoprene hose attached to the exhaust on a running engine and carried outdoors through an opening in the building will serve the purpose. Do not allow any unnecessary operation of an engine inside the shop.

When stationary gasoline or diesel engines are used to produce power in the maintenance shop, provide exhaust outlets for them. Do not depend on natural ventilation through door and windows.

At least once during each deployment have the maintenance shop evaluated by the local base industrial hygienist, if the service is available. Do this through your battalion safety office.

TOOLS AND EQUIPMENT

The quantities and kinds of tools and equipment required for a maintenance shop vary with each shop. In deciding what tools and what type of equipment to have on hand, consider two

factors: (1) the operational needs of the battalion and (2) the cost of the work at a component overhaul facility. Of course, the needs of the service come first, but not entirely without cost justification. Base your decision concerning the second factor solely on the facts and figures given in transportation maintenance management reports.

In a maintenance shop setup for repairing all types of equipment, you will coordinate and supervise work on many different types; therefore, study carefully the layout of the shop and the placement of shop equipment. You will probably be the one to decide where to put the shop equipment. This is where experience counts. You should know where the repair equipment is needed and where it will be accessible to the operators who will use it. Without careful planning you can waste a lot of space and time in shifting equipment from one place to another. If space in the main shop is critical, special repair equipment can be put in smaller shops or rooms adjoining the main shop.

Power tools, such as drill presses and bench grinders commonly used in repairing all kinds of equipment, should be located in or near the main shop area. The locations of other power tools, such as hydraulic or electric lifts, valve grinders, and machines for aligning wheels and relining brakes, depend on where the tools will be best utilized. **The master switch that controls all power in the shop should be installed where it can be reached quickly in an emergency.**

In placing power tools, secure the legs or bases to a level surface strong enough to support them and make sure they will not move or bounce when in use. Before connecting stationary, electrically operated power tools to power outlets, be sure that each one is positioned so that the starting and stopping switch is within easy reach of the operator. **Ground-fault interrupters should be installed to prevent accidental electrical shock.** When the connection is complete, test the tools to ensure that the installation is safe. Also, let your mechanics operate them and consider any suggestions they may have for improvements. As always, make sure your tool and equipment operators wear protective gear. Double-check often, looking for ways to improve the efficiency, as well as the safety, of the whole maintenance shop.

Welding equipment must be operated in an area apart from the rest of the shop. Post hazard warning signs in the area and equip it with fire-fighting equipment. Erect screens that will confine flying sparks to reduce the chances that they will start fires or get into somebody's eyes.

Tire repair equipment should also be in a separate section of the shop, located near one of the shop entrances. With this arrangement, tire tools, tube-patching equipment, and air hoses can be used by the EOs as readily as by the CMs.

Before deciding where to place an air compressor (the large shops have more than one), consider the uses you have for air and where the air outlets would be most convenient. Compressed air is needed for operating pneumatic power tools, cleaning parts, and inflating tires. By keeping compressor lines as short and free of bends as possible, you minimize drops in air pressure at the outlets. Short lines do not collect as much water as long lines and are therefore less likely to freeze in cold weather. When you have long lines, install condensation traps in them and drain the traps daily.

Battery-charging equipment must be in a well-ventilated section of the shop away from the welding area, or in a separate well-ventilated, explosiveproof building. Because hydrogen fumes produced by a charging battery are highly explosive, always install an exhaust fan near the battery charger. Make sure a water outlet is available because an approved eyewash and shower have to be installed so that anyone involved in a battery shop accident can be bathed immediately to prevent severe burns. **Delay in diluting or washing out sulphuric acid from a victim's eyes could result in loss of sight.**

SAFETY

Safety is everyone's responsibility. It is a never-ending job that cannot be left to one individual or one office. Everyone must always be alert to accident prevention. It is imperative that you emphasize safe working practices to the point that they are routine.

One of the basic rules of shop safety requires that everyone behave himself. Practical jokes and horseplay cannot be tolerated. The possible consequences of such actions are too high a price to pay for the little humor derived.

You can help prevent accidents by appointing a shop safety petty officer to detect unsafe practices, bad habits, and defective tools that would otherwise go unnoticed. You should replace your shop safety petty officer periodically, thereby rotating these duties.

You can reduce the number of personal injuries in a shop by requiring good housekeeping practices; for example, keeping the shop floor free of grease and oil to help prevent mechanics and

others from slipping or falling. Likewise, clearing the floor of creepers, stray tools, and parts will eliminate the chances of tripping over them.

Accidents and injury may be reduced or cut to zero by starting each day with a stand-up safety lecture. True, this absorbs valuable time, but it is worth it.

Crack down on bad habits, such as leaving jack handles sticking out into walkways and leaving vehicle doors open while mechanics work underneath.

THE MAINTENANCE SUPERVISOR

The battalion equipment maintenance supervisor, usually a CMCS, is responsible for that battalion's entire equipment maintenance program and all assigned CESE for the battalion and all its assigned detachments. The senior CM of a detachment, working in the equipment maintenance shop, is the maintenance supervisor for that detachment site. Maintenance supervisors have direct control over the administrative section. Specifically their duties include the following:

1. Control and supervision of all maintenance personnel, through the shop supervisors.
2. Ensuring adherence to the scheduled preventive maintenance program.
3. Ensuring accurate cost control, record maintenance, and updating.
4. Submitting equipment reports to the ALFA Company commander and the commanding officer for distribution to higher authority.
5. Maintaining the Construction Mechanics' tool allowance and ensuring that biweekly tool inventories are conducted.
6. Providing technical and safety training.
7. Providing technical assistance to the supply and logistics officer with regard to repair parts.
8. Ensuring quality control of the repair and maintenance work.
9. Ensuring that the Battalion Equipment Evaluation Program (BEEP) is carried out under the latest instructions.
10. Ensuring that the preventive maintenance schedule is entered into the ALFA Company minicomputer equipment program. The use of the minicomputer can then aid in the execution of the preventive maintenance program.

SHOP INSPECTORS

One of the keys to a successful maintenance program is good shop inspectors. Shop inspectors need maturity and tact when dealing with shop supervisors who are often militarily senior. Chapter 9 of this TRAMAN covers the duties and responsibilities of shop inspectors more completely.

AUTOMOTIVE SHOP SUPERVISOR

The automotive shop supervisor, who is usually a CMC, has direct control over the automotive repair shop and works directly for the maintenance supervisor. Among this supervisor's duties are the following:

1. Controlling and supervising all maintenance personnel assigned to the shop
2. Ensuring that preventive maintenance is performed under current instructions
3. Submitting accurate maintenance records to the cost control section
4. Maintaining the mechanics' tool kits and conducting required inventories
5. Providing necessary technical and safety instruction and leadership
6. Ensuring that all work listed on EROS is performed and that any additional work is authorized, recorded, and performed
7. Ensuring that only top quality work is performed in the shop

HEAVY SHOP SUPERVISOR

The heavy equipment repair supervisor, who is usually a CMC, has direct control over the heavy equipment repair shop and works directly for the maintenance supervisor. In addition to the duties of the automotive repair supervisor just listed, the heavy equipment repair supervisor is responsible for the assignment and supervision of the field maintenance crew and injector shop if one is established.

Field Maintenance

The importance of field maintenance and field repairs cannot be overemphasized. The success or failure of the deployment from an equipment maintenance standpoint, and in some cases from the project standpoint, can be traced to the unavailability of equipment because of poor field maintenance or inability to perform adequate and timely repairs in the field. Experienced field

mechanics are worth their weight in gold, and the heavy equipment repair supervisor must be careful in the selection of the field mechanics, even to the point of shortchanging himself in the shop. In the long run, good field maintenance will reduce the shop workload and improve the operator's concern for the equipment. Remember, it is the responsibility of the heavy equipment repair supervisor to provide the tools and equipment required by the field mechanics.

Injector Shop

When an area or shop has been established to repair injectors and injection pumps, it will normally be under the supervision of the heavy equipment repair supervisor. In addition to the necessary testing equipment, an injector repair shop requires a method of controlling the temperature and cleanliness.

SUPPORT (OR 5000) SHOP SUPERVISOR

The support (or 5000) shop supervisor, usually a CMC, reports directly to the maintenance supervisor. This supervisor is responsible for training, supervising, and controlling personnel performing the support functions assigned to him or her by the maintenance supervisor. The support shop normally includes the toolroom and shops described in the following paragraphs. All of these shops perform their services to support the heavy and automotive repair shops, which have the basic maintenance responsibility for all civil engineer support equipment (CESE) assigned to the battalion. Requests for support services (machine shop, steel shop, and so forth) from other companies within the battalion will be routed through the maintenance supervisor.

MR Shop

Machinery Repairmen (MRs) are assigned to operate the machine shop trailer, which contains lathes, drill presses, grinders, and other machine tools. It should be located near the repair shops to make it convenient for the crews of both shops to work together on joint projects. The MRs are capable of manufacturing or repairing equipment parts, tools, and machine parts. Valid inventory lists for the MR trailer may be obtained from COMCBPAC equipment office or COMCB-LANT DET, Gulfport.

Electrical Shop

Manned by Construction Mechanics, the electrical shop repairs, rebuilds, cleans, adjusts, and tests all automotive electrical parts and accessories, such as generators, starters, and voltage regulators. In many battalions, Construction Electricians (CEs) are assigned to conduct load tests and make electrical repairs to light plants, generators, and welders.

Battery Shop

CMs assigned to the battery shop maintain and recharge wet cell batteries, mix electrolyte, and keep a supply of fully charged, spare batteries for equipment used by the battalion.

The battery shop should be well separated from any open flames. It must be well ventilated to prevent accumulation of explosive hydrogen gas fumes given off during battery charging. Adequate safety equipment, located within the battery shop, includes rubber aprons and gloves, face shields, eyewash, and treadle shower. Electrical light fixtures and plug-in connections should be of explosiveproof design.

Mechanics' Toolroom

The mechanics' toolroom is the central point for issue of all mechanics' tools under an approved custody control system. Each shop supervisor is the custodian of kits and tools needed continuously for the shop. These are checked out by mechanics of the shop on signed custody receipts. Tools needed to perform particular job assignments are signed out on an individual basis. The toolroom petty officer will have an updated copy of the CESO Sets Kits and Outfits Book (SKO) to provide accurate inventory lists of all tool kits by NAVFAC assembly number. A partial listing of tool kits available to the mechanic stationed in an NMCB follows.

NAVFAC Assembly Number	Kit Name
80012	Tire service tools
80013	Mechanics' hand tools, for two people
80015	Battery service tools
80016	Automotive tune-up
80017	Automotive body tools
80023	Radiator tools
80031	Metric hand tools
80072	Puller set mechanical, 13 ton
80081	Diesel engine test kit
80414	ALFA Company toolroom kit

Be sure to check your toolroom SKO for additional tool kits and their applications. Toolroom personnel perform tool repair within their capabilities and ensure that preventive maintenance service and electrical safety checks (according to COMCBPAC/COMCBLANTINST 5100.1 series, art. 215) are conducted by battalion toolroom personnel.

ALFA Company Steel Shop

In construction battalions, Steelworkers (SWs) and Hull Technicians (HTs) form the nucleus of the ALFA Company steel shop. Their work includes repair and rebuilding of chassis components and body parts; repair and testing of radiators; and repair of any other metal components by welding, soldering, brazing, and so on.

Tire Shop

Personnel assigned to the tire shop repair and replace pneumatic tires on CESE assigned to the battalion.

This shop should be located in an easily accessible area, as over 90 percent of the CESE assigned to a construction battalion uses pneumatic tires. The SKO, volume 2, kit 80012, lists items required to operate a battalion-size tire shop. An air compressor, separate from the maintenance shop, is required because of the large volume of air used.

Lubrication Rack

The mechanics assigned to the lubrication racks maintain adequate stocks of all lubricants required by the battalion and lubricate automotive and construction equipment as required under the preventive maintenance (PM) program.

Although you will have skid-mounted lubricators and lubricating teams for servicing equipment in the field, most of your scheduled PMs will be accomplished in the maintenance shop area. Outdoor locations for lubrication stalls are satisfactory in temperate climates and during favorable weather, but efficiency is increased by providing suitable shelter. PM racks should include provisions for storage of greases and oils, preferably at a distance from your other shop areas, as a precaution against fire.

In addition to facilitating lubrication services, these racks should provide for easier inspection and cleaning of underneath parts and surfaces of CESE.

COST CONTROL SUPERVISOR

At main body sites and large detachment sites, the person assigned as cost control supervisor is normally a CM1. The duties of this supervisor include monitoring the PM clerk, cost control clerk, and direct turnover parts (DTO) clerk. When necessary, he or she will keep the vehicle status boards current, act as liaison to detachments, and keep the maintenance supervisor up to date on any incoming and outgoing action correspondence. The cost control supervisor may also be responsible for updating the equipment computer program for the maintenance supervisor. It is essential that there be a highly reliable person in this job.

Preventive Maintenance Clerk

The PM clerk is responsible for completing the basic information on the Equipment Repair Order

(ERO) (figs. 2-1, 2-2, and 2-3), maintaining the Equipment Repair Order Log Sheet (fig. 2-4) and the PM Record Card (figs. 2-5 and 2-6), preparing the annual PM Schedule (fig. 2-7) and the Equipment Repair Order Worksheet (fig. 2-8), and ordinarily also notifying the dispatcher in advance of equipment due into the shop and keeping status boards current as to units in the shop.

Cost Control Clerk

Cost control in any NCF unit consists of accurate reporting of all costs, downtime, and other maintenance data that relates to CESE repairs. The cost control clerk is responsible for summarizing the total cost of repair parts and labor expended and of making these entries in the appropriate ERO blocks.

EQUIPMENT REPAIR ORDER (ERO) NAVFAC 11200/41 (Rev 10 75) S-N 0100 L-F 012 0200														
1. UNIT NUMBER	2. ERO CODE	3. ACTIVITY CODE	4. JOB ORDER NUMBER	5. LOCATION & ORGANIZATION	6. TYPE REPAIR	7. HR METER READING	8. MILE METER READING	9. ACT NUMBER						
4813087	485001	N55000	PMG1	CB400	02	2617		AA000001						
A DIRECT LABOR		B INSPECTION		C INDIRECT LABOR		D MATERIAL		E TOTALS						
ESTIMATED HOURS														
ACTUAL HOURS	12.2	1.0	0.2					0.0	0.0					
ESTIMATED COST														
ACTUAL COST (WHOLE \$)								1.88						
11. ENGINE SERIAL NUMBER		12. CONTRACT NUMBER		13. YEAR		14. LAST PM DATE		15. PRIORITY						
				7 2		B 5 6 7 8								
16. CUSTOMER NAME		17. PROJ. COMP.		18. SHOP NAME		19. DESCRIPTION		20. CHASSIS SERIAL NUMBER						
						TRACTOR CRAWLER								
21. W/C	22. FUNCTION CODE	23. WORK DESCRIPTION MECHANIC: NOTIFY SUPERVISOR OF ALL ADDITIONAL WORK				24. PRI/SEC	25. MANHOURS ACTUAL ESTIMATE	26. ESTIMATED MAT'L COST	27. MECH INITIALS					
	1.2 X	Steam Clean					4.0							
	2.3 X	Change Oil and Filters					1.0							
	0.1 X	Lube Complete					1.0							
	0.4 X	Change Fuel Filters					.5							
	1.1 X	Clean and Service Batteries					.6							
	1.0 X	Service Air Cleaners					.3							
		Replace Rain Cap						on order						
	F.5.5	Replace #6 Fuel Injector					1.8							
	N.9.4	Adjust R/H Steering Brake					3.0							
							SUB TOTALS	12.2						
RECEIPT OF ABOVE ORDER AND EQUIPMENT IS HEREBY ACKNOWLEDGED														
28. CONTRACTOR SIGNATURE (SHOP SUPERVISOR)				29. CONTRACTING TIME				30. DATE ARRIVED						
PERMISSION TO EXCEED WORK ON ERO MUST BE AUTHORIZED BY REQUESTING ACTIVITY														
31. IMP CODE	32. INITIAL INSPECTOR (SIGNATURE)			33. DATE	34. IMP CODE	35. FINAL INSPECTOR (SIGNATURE)			36. DATE					
37. CUSTOMER APPROVAL (SIGNATURE)	38. ACT NAME			39. DATE	40. MAINTENANCE SUPERVISOR (SIGNATURE)			41. DATE	42. PAGE OF					

Figure 2-1.—Equipment Repair Order (ERO), NAVFAC 11200/41.

☆ U.S. Government Printing Office: 1979

Direct Turnover Parts (DT0) Clerk

TECHNICAL LIBRARIAN

inventory and enforcing check-out procedures, Replacement manuals for older CESE are normally expensive and hard to obtain. Without these publications, CESE cannot be properly maintained, repaired, or operated, and the unit is largely "dead in the water." The technical librarian maintains all required reference materials, such as microfiche, COSAL, and so forth, needed to research and initiate parts requisitions. The technical librarian normally researches and prepares parts requisitions to free the floor mechanic to perform maintenance functions.

The purpose of the battalion maintenance program is to keep CESE in a constant safe and

[illegible]

Figure 2-3.—Equipment Repair Order Continuation Sheet, NAVFAC 11200/41A.

serviceable condition at a minimum cost and to detect and correct minor deficiencies before they lead to costly repairs. The CESE Maintenance System of the NCF and special operating units (SOU) has three categories of maintenance: (1) organizational, (2) intermediate, and (3) depot.

ORGANIZATIONAL MAINTENANCE

The first, or organizational, level of maintenance is divided into two categories: operator maintenance and preventive maintenance (PM). Operator maintenance, sometimes called first-echelon maintenance, is the maintenance that every operator is required to do to maintain CESE in a clean, safe, and serviceable condition. It includes daily inspections, lubrications, and adjustments necessary to ensure early detection of malfunctions of CESE. Figures 2-11 and 2-12 show preventive maintenance forms that the operator can use as guides for a daily prestart

inspection and as a trouble report in case of any defect or unsafe condition that needs to be reported to the dispatcher immediately.

The second part of organizational maintenance is preventive maintenance, which goes beyond the inspections, lubrications, and adjustments of operator maintenance. Its prime objective is to maximize equipment availability and to minimize unnecessary repair costs. Whenever feasible, operators should participate in this type of maintenance.

INTERMEDIATE MAINTENANCE

Intermediate maintenance, which every shop has the responsibility to perform, encompasses the removal, replacement, repair, alteration, calibration, modification, rebuilding, and overhaul of assemblies, subassemblies, and components. Although the rebuild and overhaul of major assemblies are included, only essential

Figure 2-4.—Equipment Repair Order Log Sheet.

Figure 2-5.—PM Record Card, NAVFAC 11240/6.

ACTIVITY _____

YEAR _____

PM SCHEDULE GROUP	MONTH AND DAY SCHEDULE											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	21		19		14		11		6		1	
2	22		20		15		12		9		4	
3	23		21		16		15		10		5	
4	24		22		17		16		11		6	
5	25		25		20		17		12		7	
6	28		26		21		18		13		8	
7	29		27		22		19		16		12	
8	30		28		23		22		17		13	
9	31		29		24		23		18		14	
10		1		1	27		24		19		15	
11		4		2	28		25		20		18	
12		5		3	29		26		23		20	
13		6		4	31		29		24		21	
14		7		5		3	30		25		22	
15		8		8		4	31		26		25	
16		11		9		5		1	27		26	
17		12		10		6		2	30		27	
18		13		11		7		5		1	29	
19		14		12		10		6		2		2
20		15		15		11		7		3		3
21		18		16		12		8		4		4
22		19		17		13		9		7		5
23		20		18		14		12		8		6
24		21		19		17		13		9		9
25		25		22		18		14		10		10
26		26		23		19		15		11		11
27		27		24		20		16		14		12
28	2	28		25		21		19		15		13
29	3		1	26		24		20		16		16
30	4		4	29		25		21		17		17
31	7		5	30		26		23		18		18
32	8		6		1	27		26		21		19
33	9		7		2	28		27		22		20
34	10		8		3		1	28		23		21
35	11		11		6		2	29		24		24
36	14		12		7		3	30		25		26
37	15		13		8		5			28		27
38	16		14		9		8		3	29		30
39	17		15		10		9		4	30		31
40	18		18		13		10		5	31		

Figure 2-7.—PM Schedule.

A PM Record Card (fig. 2-5) is maintained for each item of assigned CESE to help the PM clerk prepare the ERO. The following information is taken from the completed ERO and entered on a PM Record Card:

Type of service performed

Date performed

Cumulative mileage/hours

Whether oil or filter was changed (shown by the abbreviation O/C or F/C)

PM record cards are maintained by the PM group in a tickler file, which the maintenance supervisor reviews at least once a month. When a vehicle is transferred, the PM Record Cards that pertain to that vehicle are placed in the history jacket.

The reverse side of the PM Record Card (fig. 2-6) is convenient for listing attachments for each USN. This will aid the inspector in locating the proper attachments for PM.

REPAIR PARTS SUMMARY SHEET						
PM Group 23 Code <u>485001</u> USN <u>48-00123</u>						
Date	Dept. No	UND	Req No.	Nomenclature	Follow-up	Rec'd
8018	A009	B	8021-2211	Gasket Set	1/31	2/28
8229	A161	B	8230-2713	Injector	8/28 9/15 10/2	10/11
8246	A218	B		Raincap		

Figure 2-10.—Repair Parts Summary Sheet Sample

OPERATOR'S INSPECTION GUIDE AND TROUBLE REPORT	
REGISTRATION NO. 93-45513	ODOMETER READING 11385
Use this form as a guide when performing before and after operation inspections. Check (✓) items that require servicing by maintenance personnel.	
<input type="checkbox"/>	1. DAMAGE (Exterior/Interior Missing Components)
<input type="checkbox"/>	2. LEAKS (Oil, Gas, Water)
<input type="checkbox"/>	3. TIRES (Check inflation, abnormal wear)
<input type="checkbox"/>	4. FUEL, OIL, WATER SUPPLY (Antifreeze in season)
<input type="checkbox"/>	5. BATTERY (Check water level, cables, etc.)
<input type="checkbox"/>	6. HORN
<input type="checkbox"/>	7. LIGHTS/REFLECTORS/MIRRORS/TURN SIGNALS
<input type="checkbox"/>	8. INSTRUMENTS (Oil, Air, Temperature, etc.)
<input checked="" type="checkbox"/>	9. WINDSHIELD WIPER
<input type="checkbox"/>	10. CLEAN WINDSHIELD/VEHICLE INTERIOR
<input type="checkbox"/>	11. CARGO, MOUNTED EQUIPMENT
<input type="checkbox"/>	12. STEERING
<input type="checkbox"/>	13. SAFETY DEVICES (Seat belts, flares, etc.)
<input type="checkbox"/>	14. DRIVE BELTS/PULLEYS
<input checked="" type="checkbox"/>	15. BRAKES (Drain air tank when equipped)
<input type="checkbox"/>	16. OTHER (Specify in "Remarks")
DATE 2-24-	OPERATOR'S SIGNATURE L. L. Baker
REMARKS BRAKES SEEM TO GRAB WHEN APPLIED—NOT DUE TO WEATHER CONDITIONS.	
<small>NAVFAC 9-11240 13 (12-69) Supersedes DA Form 1128 5/74-0105-004-1195</small>	

Figure 2-11.—Operator's Inspection Guide and Trouble Report, NAVFAC 9-11240/13.

Type C Inspections

Consult COMCBPAC/COMCBLANTINST 11200.1 series for guidance regarding frequency of Type C PM scheduling.

NOTE

Cost and availability of repair parts, as well as resources and working conditions, must be considered along with CESE commitments and conditions.

EQUIPMENT REPAIR ORDER AND CONTINUATION SHEET

The Equipment Repair Order (ERO) (figs. 2-1 and 2-2) and the continuation sheet (fig. 2-3) are used in the NCF to record costs of repairs, hours required for repairs, and total time that equipment is out of service. The data will help the NCF in budget planning, determining life expectancies of equipment, and predicting future equipment and training requirements. The Naval Facilities Engineering Command Systems Office (FACSO), Port Hueneme, California, also uses the data to compile cost and utilization figures on each piece of USN-numbered equipment. Therefore, the data must be complete, accurate, and neatly recorded according to NAVFAC P-404 and COMCBPAC/COMCBLANTINST 11200 series.

OPERATOR'S DAILY PM REPORT NAVFAC 11260/4 (9-74) <i>Supersedes NAVDOCKS 2664</i> S/N 0105-LF-004-1520			<small>USN NO</small> 44-05178
<small>Use Reverse Side for Remarks</small> Explanatory Notes on Reverse Side.			<small>FUEL</small> 12
			<small>OPR HRS</small> 3
NO.	ITEM	OK Y	SERVICES PERFORMED
1	RADIATOR SOLUTION		
2	GEN. & FAN BELT		Adjusted
3	ENGINE OIL LEVEL		
4	AIR CLEANER		
5	PRECLEANER		
6	BATTERY		Added water
7	HYD. OIL LEVEL		
8	LUBRICATION		
9	TIRE CONDITION		
10	SAFETY EQUIP.		
11	GENERAL COND.		
12	FUEL LEVEL		Added 12 gal
13	INSTRUMENTS		
14	SHUTDOWN PRECAUTIONS		
15	OTHER		
DATE 1/14/		OPERATOR'S SIGNATURE R. R. Ryan	

FRONT
BACK

Figure 2-12.—Operator's Daily PM Report, Construction and Allied Equipment, NAVFAC 11260/4.

The Equipment Repair Order Worksheet (fig. 2-8) is used solely to list repair parts used. It is used by the mechanic and shop supervisor to ensure that all supply documents are attached to the ERO. The cost control supervisor and the maintenance supervisor use this form to record the cost of repair parts properly.

The ERO is the sole authority to perform work on equipment, whether the work is performed in the field or in the shop. An ERO is required each time labor time exceeds 1.0 hour or materials are expended on scheduled PM, interim repairs, modernization or alteration of equipment, or deadline cycling or preservation of equipment. The ERO Log Sheet (fig. 2-4) is one means for keeping track of the status of the EROS.

REPAIR PARTS

Any NCF unit has a wide variety of CESE assigned to it. Large quantities of repair parts are required to keep CESE in top operating condition. Because of this, a Construction Mechanic is assigned to supply to work in the repair parts outlet to identify repair parts, to provide counter help, and to act as a warehouseman. He or she also acts as an interface between supply and the maintenance supervisor. The Construction Mechanic assigned to this position is required to attend Shops Stores Procedure Class, given by NCTC Port Hueneme, California, to learn the full scope of his or her responsibilities. (See COMCBPAC/COMCB-LANTINST 4400.3 series for the NCTC SSPC course number.)

COSAL SUPPORT

NAVFAC-funded initial outfitting repair parts allowances required by the NCF for support of its assigned equipment are listed in Consolidated SEABEE Allowance Lists (COSALs). The COSAL establishes the support for assigned organic and augment equipment based on USN-numbered listings. COSALs are published under the authority contained in the NAVFAC/NAVSUP program support agreement by Naval Ships Parts Control Center (SPCC), Mechanicsburg, Pennsylvania. COSALs are both technical and supply documents. They are technical documents in that equipment nomenclature, operating characteristics, technical manuals, and so on, are described in Allowance Parts Lists. They are supply documents in that they list all parts by manufacturer's code and part number, national stock number, unit of issue, and price and quantity authorized by NAVFAC maintenance policy. Repair parts allowances are designed to provide a 90 percent effectiveness for 1,800 construction hours or 90 days support. This 90-day period is defined as a 3-month utilization period for vehicles or equipment in new or like-new condition. Selection of parts included in the COSAL is made after identification; usage and insurance items are coded by maintenance capability according to NAVFAC Lead Allowance Parts Lists. Maintenance codes are used to control the allowed item range for each of the various organizational maintenance capabilities. The

definition and application of maintenance codes are contained in appendix C of the COSAL introduction. There are two basic categories of repair parts: parts peculiar—NAVSUP modifier code 98 and parts common—NAVSUP modifier code 97. These are published in two separate COSALs. Parts peculiar are applicable only to specific makes or models of equipment. Parts common are the general repair type of items, (appendix G of the COSAL introduction) and are not referenced to any specific equipment. Military and commercial operators, manuals, parts manuals, and maintenance manuals are listed in the parts peculiar COSAL. A descriptive account showing the method of entry and how to use the COSAL is contained in appendix F of the COSAL instruction.

A third category of repair parts has been added to the battalion's allowance. The NAVSUP modifier 96 is a minimodifier 97 for use with the air detachment or an extended detachment.

SUPPLY AIDS

The following supply aids have been developed and are distributed with each COSAL to assist personnel in the repair parts program:

NAVSUP Form 1114 (fig. 2-13)—Stock Record Card Afloat.

Add Item Listing—Repair parts provided by a Naval Construction Battalion Center (NCBC) to support new equipment not previously supported.

COB. PR		STOCK NO. AND DESCRIPTION		U/I	UNIT PRICE	ALLOWANCE PARTS LIST	LOCATION	HIGH LIMIT	LOW LIMIT	
92		5340-582-2741	PADLOCK	EA	1.09	58602901	C 103A	16	9	
REQUISITIONS OUTSTANDING		ALL FILL QTY AT		TOWC	EL	* 7/1/9 12/3/9		11	4	
DATE	DOCUMENT NO.	QUANTITY	DATE/DOCUMENT NO.	RECEIPTS	ISSUES	ON HAND	DATE/DOCUMENT NO.	RECEIPTS	ISSUES	ON HAND
			12/13/69 B.F.			12				
			2/13/70 107-4		4	8				
			3/25/70 211-4		1	7				
0048	0120		3/30/70 0120	7		14				
			5/9/70 INV LBI		1	13				
			10/2/70 371-4		3	10				
COB. PR		STOCK NO. AND DESCRIPTION		U/I	UNIT PRICE	ALLOWANCE PARTS LIST	LOCATION	HIGH LIMIT	LOW LIMIT	
92		5340-582-2741	PADLOCK	EA	1.09	58602901	C 103A	16	9	

Figure 2-13.—Stock Record Card Afloat, NAVSUP Form 1114.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																																																																																																			
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WAREHOUSE LOCATION										TYPE OF UNIT CARGO										UNIT WEIGHT										UNIT CUBE										UFC										NMFC										FREIGHT RATE										DOCUMENT RATE										QUANTITY										TOTAL PRICE									
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Figure 2-14.—Single-Line Item Release/Receipt Document, DD Form 1348-1.

1 REQ DATE		2 DEPT NO		3 URGY		4 ROD		5 LOCATION		6 SM		7 ISSUE DATE		A REON QTY		B REON NO							
8027		B		8057		MU2																	
9 NOUN NAME OR REF SYM				10 APL/AEL/CIO				11 INV QTY				12 NIS				13 OBL AMT				14 POSTED			
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15 URG				16 WC				17 EIC				18 EQUIP COSAL SUPPTD				19 URG				20 MART			
R 5 5 5 0 4				A A 0 0 2 0 8 9				YES X				NO											
21 SC		22 COG		23 MCC		24 FSC		25 STOCK NUMBER		26 U1		27 QUANTITY		28 UNIT PRICE		29 EXTENDED PRICE		30 FUND					
- 9 Z		5 3 3 0		0 0 2 9		1 2 8 3 4		E A		0 0 0 1		1 5 0 0											
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Figure 2-15.—Single-Line Item Consumption/Management Document (Manual), NAVSUP Form 1250-1.

Delete Item Listing—Repair parts provided by a previous COSAL that are no longer required.

DD Form 1348-1 (fig. 2-14)—Single-Line Item Release/Receipt Document.

Transfer Item Listing—A list showing previous COSAL items that must be transferred to other locations because of equipment transfer.

Summary Item List—A composite list of all items required by the old COSAL.

Stock Number Changes—Two listings: old-to-new national stock number (NSN) and new-to-old (NSN) which show changes in the stock number listed in the old COSAL and updated by the new COSAL.

TECHNICAL LIBRARY

An effective CESE management program needs technical data and guides for each item of CESE. Within the NCF, operator manuals, lubrication charts, parts manuals, and shop repair manuals are included in each parts peculiar COSAL. Civil Engineer Support Office (CESO) administers the technical manual support program. Inadequate or deficient TMs are reported to CESO.

REQUESTING REPAIR PARTS

NAVSUP Forms 1250-1 (fig. 2-15) and 1250-2 (fig. 2-16) are used as authorization for drawing

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II. IDENTIFICATION DATA										AA. MANUFACTURER'S CODE AND PART NO. 83179										BB. MANUFACTURER'S NAME, ADDRESS AND POINT OF CONTACT (POC) Joy Manufacturing Co., Air Power Group 900 Woodland Avenue Michigan City, IN 46360-5672 Phone: (412) 562-4711										CC. SHIP'S POC NAME DATE DIVISION PHONE ()										DD. MANUFACTURER'S CATALOG IDENTIFICATION Joy Portable Air Compressor MODD125S										EE. CATALOG DATE										FF. TECHNICAL ORDER NO.										GG. NAME OF ITEM REQUESTED / CIRCUIT SYMBOL NO. LATCH DOOR										HH. MAKE JOY										II. MODEL NO. D125S										JJ. SERIAL 1977										KK. SERIAL NO. 135186										LL. CON. OR LATCH DOOR										MM. MAKE LATCH DOOR										NN. MODEL NO. LATCH DOOR										OO. SERIAL LATCH DOOR										PP. SERIAL NO. LATCH DOOR										QQ. CON. OR LATCH DOOR										RR. MAKE LATCH DOOR										SS. MODEL NO. LATCH DOOR										TT. SERIAL LATCH DOOR										UU. SERIAL NO. LATCH DOOR										VV. CON. OR LATCH DOOR										WW. MAKE LATCH DOOR										XX. MODEL NO. LATCH DOOR										YY. SERIAL LATCH DOOR										ZZ. SERIAL NO. LATCH DOOR										AAA. CON. OR LATCH DOOR										BBB. MAKE LATCH DOOR										CCC. MODEL NO. LATCH DOOR										DDD. SERIAL LATCH DOOR										EEE. SERIAL NO. LATCH DOOR										FFF. CON. OR LATCH DOOR										GGG. MAKE LATCH DOOR										HHH. MODEL NO. LATCH DOOR										III. DESCRIPTION OF ITEM REQUESTED / COMPLETE NAME/PLATE DATA FROM EXISTING UNIT ILLUSTRATION PAGE 5-4, FIGURE 2 ITEM 15 DESCRIPTION PAGE 5-15 ITEM 15										IIII. SOURCE OF SUPPLY (list phone and POC if available)										JJJJ. ACCOUNTING DATA										JJJJJ. REQUESTOR (Clear text name and address)										JJJJJJ. APPROVED BY (Supply/Center/Supply/Planning Officer) NAME 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Figure 2-16.—NAVSUP Form 1250-2.

or ordering repair parts. The appropriate shop supervisor is responsible for ensuring that they are prepared according to COMCBPAC/COMCBLANTINST 4400.3 series.

Repair Parts Available from Stock

After the shop supervisor or higher authority authenticates the request, the cost control clerk submits the form to the repair parts storeroom with the ERO. After receiving the required part, the receiver signs NAVSUP Form 1250-1 (fig. 2-1 5) in data block 31. The repair parts person then enters the NSN quantity and price on the ERO worksheet and verifies the issue by initials.

Repair Parts Not in Stock (NIS), Not Carried (NC), or Procured from Salvage or Local Manufacture

If the repair part requested is NIS or NC, the storeroom storekeeper marks an "X" in the appropriate box in data block 12 and verifies data entries.

The request for an NIS/NC repair part will be attached to the ERO and returned to the cost control office for review by the maintenance supervisor and assignment of the urgency-of-need designator. The ERO, with NAVSUP Form 1250-1 or 1250-2 attached, is then passed to the cost control clerk, who records the information in the DTO log and DTO Summary Sheet. The cost control clerk pulls the yellow copy of the ERO and files it with the DTO Parts Summary Sheet. Nonoperational ready supply (NORS)/anticipated nonoperational ready supply (ANORS) entries in the DTO log are annotated in red ink.

Requests for repair parts with an urgency-of-need designator "B" in data block 3 require the approval signature of the ALFA FOUR or designated assistant in data block 30. All urgency-of-need designator "A" requests require the approval signature of the ALFA SIX.

The supply department orders the NIS/NC repair part and returns the yellow copy of NAVSUP Form 1250-1 or 1250-2 (fig. 2-16) within 72 hours after assigning the Julian date and serial number in data block B (fig. 2-15). The Julian date and serial number, referred to as the requisition number, are entered in the DTO log and will always be used for reference whenever a request is made for the requisition status of an outstanding order.

When any NIS/NC repair part is received, the item is given to the DTO clerk. The DTO clerk notates the part received on the DTO log and the appropriate DTO Summary Sheet. The yellow copy of the NAVSUP 1250-1 or 1250-2 (figs. 2-15 and 2-16) is taken from the file and attached to the part, which is then stored in the DTO bin according to the PM group of the equipment for which it was ordered. Any DTO part received for a deadline piece of equipment must be brought to the attention of the maintenance supervisor for disposition.

Repair parts from salvage or local manufacture (fabrication within the unit) may not involve procurement or issue action through the repair parts storeroom but must be documented for purposes of cost control and historical demand.

NON-NSN Requisition, NAVSUP Form 1250-2 (fig. 2-16), is processed in the same manner as NAVSUP Form 1250-1 (fig. 2-15).

Job Control Number (JCN)

The job control number consists of fourteen alphanumeric characters. The first six characters are the service designator (R, V, or N) and unit identification code (UIC). The next four characters are the work center (WC) code (for example, "AAOO") as defined in COMCBPAC/COMCBLANTINST 4400.3 series. The last four-character group is a locally assigned job sequence number (JSN).

WRONG PARTS!

Each year millions of dollars are wasted by ordering wrong parts. As a maintenance supervisor, you are responsible for ensuring that the Construction Mechanics assigned to the technical library are researching and ordering repair parts accurately. Strict adherence to proper supply procedures and a strong working relationship with your supply department will help prevent waste, save the government thousands of dollars, and curb unnecessary CESE downtime.

REPAIR PARTS TURN-IN

In the event, for one reason or another, that "the wrong parts" arrive at your site, do NOT ignore the problem. Such actions as hiding or burying them, giving them away, or destroying them are all illegal, and severe disciplinary action can be taken against you. Leaving these parts "on

the shelf in case of need” is also in conflict with supply instructions, and it clogs up your storeroom or shop. The proper procedure is to turn these parts in to your supply department and let supply dispose of the parts properly. Proper procedures may be obtained from the supply officer of your unit.

BATTALION EQUIPMENT EVALUATION PROGRAM (BEEP)

The reliability of equipment is one of the main factors in the ability of an NMCB to perform its assigned mission. Before you take a look at this program from the maintenance viewpoint, you should familiarize yourself with current COMCBPAC/COMCBLANTINST 11200.1 series. This instruction establishes uniform procedures to be followed during a battalion’s on-site relief and equipment turnover.

The purpose of the battalion equipment evaluation program (BEEP) is threefold: (1) to pass on all special knowledge of CESE maintenance and operations techniques; (2) to provide the relieving battalion with a realistic and in-depth condition evaluation of CESE allowance, facilities, tools and materials; and (3) to use the full expertise and efforts of the two equipment forces to provide the relieving battalion and detachments with the best possible ‘A’ Company operation to conduct a successful deployment.

RESPONSIBILITIES OF THE RELIEVING BATTALION

Before arriving on the site, the incoming battalion is responsible for the following:

1. Notify COMCBPAC Equipment Office, Port Hueneme, California; COMCBLANT Detachment, Gulfport, Mississippi; and the battalion being relieved of the commencement date of the BEEP at least 30 days before commencement date. It is recommended that the BEEP start at least 10 days before the arrival of the main body.

2. Provide information, as required, to COMCBPAC/COMCBLANT equipment representatives for the completion of the BEEP report.

3. Ensure that all personnel required for the BEEP (see COMCBPAC/COMCBLANTINST 11200.1 series, chapter 3, for personnel requirements) are assigned to the advance party.

4. Have sufficient supplies of NMCB decals for organic and augment equipment on hand.

5. Ensure that required documents and supplies accompany the advance party.

RESPONSIBILITIES OF THE BATTALION BEING RELIEVED

Before and during the BEEP, the battalion being relieved is responsible for the following:

1. Coordinate the BEEP commencement date with the incoming battalion.

2. Assign counterparts to personnel arriving with the incoming battalion, and ensure that these personnel remain on site until completion of the BEEP. Personnel should not be assigned to other duties that would conflict with their participation in the BEEP.

3. Make available all necessary tools and shop equipment with which to evaluate and repair the equipment.

4. Clean and make available all equipment for evaluation and repair.

5. Coordinate the scheduling of equipment for inspection with the incoming battalion.

NOTE

The recommended procedure is to schedule the equipment by PM group, using the appropriate number of PM groups to enable the BEEP to be completed within 10 working days.

6. Ensure that an ERO is prepared for each item of equipment with a copy of the Equipment Evaluation Inspection Guide (figs. 2-17 and 2-18) and also a copy of the Attachment Evaluation Inspection Guide (fig. 2-19), when appropriate.

7. Have two full workdays of CESE precleaned and staged before the commencement of the BEEP.

JOINT RESPONSIBILITIES

The following tasks are accomplished jointly by the battalions during the BEEP:

1. An inspection of all maintenance records, noting accuracy and deficiencies and updating as required.

2. A review and accountability of all maintenance correspondence that is pending final action.

DATE						
CODE		USN NO.	MILEAGE	HOURS	ENGINE SERIAL NO.	
PRESTART INSPECTION	INSPECTORS	INITIALS	NMCB	INITIALS	NMCB	
	COOLING SYSTEM	LEVEL	LEAKS	CONDITION		
	LUBRICATION SYSTEM	LEVEL	LEAKS	CONDITION		
	CHARGING SYSTEM	BATTERY LEVEL	BELTS	CABLES	CONNECTIONS	
	LIGHTING SYSTEM	HEADLIGHTS	TAILLIGHTS	BLACK OUT	INSTRUMENTS	
		CLEARANCE	REFLECTORS	REMARKS		
	FUEL SYSTEM	LEVEL	LEAKS	CONDITION		
	TIRES	SIZE	TYPE TREAD	CONDITION	INFLATION	
		MOUNTED SPARE SIZE		CONDITION	INFLATION	
	TRACKS	RAILS	PINS	SHOES	SPROCKETS	
		IDLERS	REMARKS			
	MISCELLANEOUS	AUTO TRANS FLUID			MIRRORS	LUG NUTS
		CONTROLS	CABLES	DOORS	GLASS	
		UPHOLSTERY		BODY CONDITION		
	REMARKS					
ENGINE RUNNING	INSPECTORS	INITIALS	NMCB	INITIALS	NMCB	
	ACCESSORIES	INSTRUMENTS	WARNING DEVICES HORN			
		W/S WIPERS	BRAKES	CLUTCH	HAND BRAKE	
	LEAKS	ENGINE	TRANSMISSION		TRANSFER CASE	
		DIFFERENTIALS	BRAKES	STEERING	WINCH	
	ENGINE PERFORMANCE	STARTING	IDLING	FULL LOAD		
		PARTIAL LOAD		REMARKS		
	VEHICLE PERFORMANCE	STEERING	BRAKES	CLUTCH	TRANSMISSION	
		DIFFERENTIALS	TRANSFER CASE	PTO	WINCH	
		HYD SYSTEM	DRIVE SHAFTS	UNUSUAL NOISE/MOTION		
	REMARKS					

Figure 2-17.—Equipment Evaluation Inspection Guide.

					DATE																																				
I.D. NUMBER		DESCRIPTION		LOCATION																																					
ASSIGNED TO CODE		USN NO.		MOUNTED/UNMOUNTED																																					
INSPECTORS		INITIALS	NMCB	INITIALS	NMCB																																				
PRESTART INSPECTION		FRAME	MOUNTINGS	MOUNTING HARDWARE																																					
		CONTROLS	CABLES/SHEAVES		BUSHINGS/BEARINGS																																				
		HOSES	HYD SYSTEM	CUTTING EDGE/TEETH																																					
REMARKS																																									
INSPECTORS		INITIALS	NMCB	INITIALS	NMCB																																				
OPERATIONAL INSPECTION		PARTIAL LOAD		FULL LOAD																																					
		REMARKS																																							
OPERATIONS SUPERVISOR		INITIALS	NMCB	RECOMMENDED CONDITION CODE																																					
		INITIALS	NMCB	RECOMMENDED CONDITION CODE																																					
REMARKS																																									
SHOP SUPERVISOR		MAKE MINOR REPAIRS/ORDER PARTS (Initials)																																							
		FINAL INSPECTION (Initials)																																							
<p>OVERALL CONDITION Circle Applicable Code (below)</p> <p>The following is a complete listing of the possible codes with a brief description.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Code</td> <td style="width: 40%;">Description</td> <td style="width: 10%;">Code</td> <td style="width: 40%;">Description</td> </tr> <tr> <td>A1</td> <td>Serviceable/Unused-Good</td> <td>F8</td> <td>Unserviceable Repairable-Repairs Required-Fair</td> </tr> <tr> <td>A2</td> <td>Serviceable/Unused-Fair</td> <td>F9</td> <td>Unserviceable Repairable-Repairs Required-Poor</td> </tr> <tr> <td>A3</td> <td>Serviceable/Unused-Poor</td> <td>G7</td> <td>Unserviceable Incomplete-Repairs Required-Good</td> </tr> <tr> <td>A4</td> <td>Serviceable/Used-Good</td> <td>G8</td> <td>Unserviceable Incomplete-Repairs Required-Fair</td> </tr> <tr> <td>A5</td> <td>Serviceable/Used-Fair</td> <td>G9</td> <td>Unserviceable Incomplete-Repairs Required-Poor</td> </tr> <tr> <td>A6</td> <td>Serviceable/Used-Poor</td> <td>SX</td> <td>Unserviceable Scrap/Salvage</td> </tr> <tr> <td></td> <td></td> <td>SS</td> <td>Unserviceable Scrap/Scrap</td> </tr> <tr> <td>F7</td> <td>Unserviceable Repairable-Repairs Required-Good</td> <td></td> <td></td> </tr> </table>						Code	Description	Code	Description	A1	Serviceable/Unused-Good	F8	Unserviceable Repairable-Repairs Required-Fair	A2	Serviceable/Unused-Fair	F9	Unserviceable Repairable-Repairs Required-Poor	A3	Serviceable/Unused-Poor	G7	Unserviceable Incomplete-Repairs Required-Good	A4	Serviceable/Used-Good	G8	Unserviceable Incomplete-Repairs Required-Fair	A5	Serviceable/Used-Fair	G9	Unserviceable Incomplete-Repairs Required-Poor	A6	Serviceable/Used-Poor	SX	Unserviceable Scrap/Salvage			SS	Unserviceable Scrap/Scrap	F7	Unserviceable Repairable-Repairs Required-Good		
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ABOVE CONDITION AGREED TO BY MAINTENANCE SUPERVISORS FROM BOTH BATTALIONS																																									
NMCB (SIGNATURE)			NMCB (SIGNATURE)																																						
COMCBPAC/LANT Equip. Rep. (Signature)				Date	Code																																				

Figure 2-18.—Equipment Evaluation Inspection Guide—Continued.

INVENTORY	INSPECTORS	INITIALS	NMCB	INITIALS	NMCB																															
	COLLATERAL EQUIPAGE INVENTORY	DISCREPANCIES/SHORTAGES																																		
	OPERATIONS SUPERVISORS	INITIALS	NMCB	RECOMMENDED CONDITION CODE																																
INITIALS		NMCB	RECOMMENDED CONDITION CODE																																	
REMARKS																																				
SHOP INSPECTION AND REPAIR	INSPECTORS	INITIALS	NMCB	INITIALS	NMCB																															
	MOUNTING BOLTS	ENGINE	TRANSMISSION	AXLES	TRANSFER CASE																															
		SPRINGS	BODY	CAB	FENDERS																															
		FUEL TANKS	REMARKS																																	
	MISCELLANEOUS	EXHAUST SYSTEM	SPRINGS	SHOCKS	TIE RODS																															
		DRAG LINK	IDLER ARM	CONTROL LINKAGE																																
	AIR INTAKE SYSTEM	CLEANER COND.	PIPING CONNECT	TURBOCHARGER, BLOWER																																
	FRONT WHEELS	BRAKE LINING	BEARING ASSEMBLIES		SEALS																															
		BOOTS	DRUMS	CYLINDERS	BACKING PLATE																															
		SHOE MOUNT	ADJUST MECH	REMARKS																																
	REAR WHEELS	BRAKE LINING	BEARING ASSEMBLIES		SEALS																															
		BOOTS	DRUMS	CYLINDERS	BACKING PLATE																															
		SHOE MOUNT	ADJUST MECH	REMARKS																																
	SHOP SUPERVISOR	MAKE MINOR REPAIRS/ORDER PARTS (Initials)																																		
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NMCB (SIGNATURE)			NMCB (SIGNATURE)																																	
COMCBPAC/LANT Equip. Rep. (Signature)			Date	Code																																

Figure 2-19.—Attachment Evaluation Inspection Guide.

3. An inventory and inspection of all permanent ALFA Company shop equipment, noting condition and deficiencies.

4. A preventive maintenance inspection to the BPM level on each nonpreserved item of USN-numbered equipment assigned, using the Equipment Evaluation Inspection Guide. Accomplish all repairs possible, dependent upon the work force, space, and repair parts available as determined jointly by both maintenance supervisors.

5. A preventive maintenance inspection of all equipment attachments, using an Attachment Evaluation Inspection Guide. Accomplish all repairs possible, dependent upon the work force, space, and repair parts available as determined jointly by both maintenance supervisors.

6. A visual inspection of each preserved item of assigned USN-numbered equipment, using an Equipment Evaluation Inspection Guide. The equipment is not depreserved for testing unless visual inspection shows major discrepancies.

The equipment condition codes as defined below are used in completing the parts of figures 2-18 and 2-19 that describe the overall condition of the equipment being BEEPed. Complete definitions of the codes are as follows:

A-Serviceable. New, used, repaired or reconditioned equipment that is serviceable for its intended function.

1-Unused-Good. Unused equipment that is usable without repairs and is ready for use.

2-Unused-Fair. Unused equipment that is usable without repairs, ready for use, but somewhat deteriorated.

3-Unused-Poor. Unused equipment that is usable without repairs but has considerable deterioration or damage.

4-Used-Good. Used equipment that is usable without repairs and most of its useful life remains.

5-Used-Fair. Used equipment that is usable without repairs but is somewhat worn or deteriorated and may soon require repairs.

6-Used-Poor. Used equipment that may be used without repair but is considerably worn or deteriorated. Remaining utility is limited or major repairs will soon be required.

F-Unserviceable (Repairable). Economically repairable equipment that requires repair or reconditioning.

G-Unserviceable (Incomplete). Equipment requiring additional parts or components to complete before issue. Also includes items with a long lead time, additional part requirement.

7-Repairs Required-Good. Required repairs are minor and should not exceed 15 percent of the replacement cost.

8-Repairs Required-Fair. Required repairs are considerable and are estimated to range from 16 percent to 40 percent of replacement cost.

9-Repairs Required-Poor. Required repairs are major and are estimated to range from 41 percent to 65 percent of replacement cost.

S-Unserviceable (Scrap). Equipment that has no value except for its basic material.

X-Salvage. Property that has some value, but repair or rehabilitation to use for the intended purpose is clearly impractical. Cannibalization of parts is possible.

X-Scrap. Material that has no value except for its basic material cost.

NOTE

Repair costs by percentage of replacement as set forth in numerical coding will pertain to deadlined equipment only.

COMCBPAC/COMCBLANT RESPONSIBILITIES

Representatives from COMCBPAC or COMCBLANT will be present at each BEEP and will remain on board until all phases of the BEEP have been completed. The primary duty of the representatives is to present guidelines to personnel from both battalions that they are to cover and adhere to during the BEEP. (These guidelines are listed in the COMCBPAC/COMCBLANT-INST 11200.1 series, page 157, paragraph 3702.) Specific responsibilities of the COMCBPAC/ COMCBLANT representatives are as follows:

1. Provide technical assistance during the BEEP.

2. Authenticate all NAVSUP Form 1250-1s and 1250-2s generated during the BEEP.
3. Assign all final CESE condition codes.
4. Conduct a post-BEEP critique for appropriate personnel of both battalions.
5. Prepare and submit a BEEP completion report to COMCBPAC or COMCBLANT, with copies to appropriate addresses.

**KEEP IN MIND THAT SAFETY
WILL BE PARAMOUNT
THROUGHOUT THE ENTIRE BEEP**

REPAIR PARTS

The repair parts portion of the BEEP will be accomplished according to COMCBPAC/COM-CBLANTINST 4400.3 series, appendix C.

EMBARKATION

As indicated in the name, mobility is a major portion of the tasking of each Mobile Construction Battalion. The battalion maintains a staff that preplans for given situations. They work with the air detachment, air echelon, and sea echelon scheduling for ships or planes. The embarkation staff determines and adjusts load requirements to fit the type of units doing the transporting. As a CM1, you will be tasked to communicate with the embark staff through your chain of command. This communication will include changes in types of equipment available, deadlined units designated as air detachment or air echelon, and parts requirements changes.

SCHEDULING

Scheduling of equipment through the shop during embarkation depends on which equipment is to be embarked, the number of mechanics available, and time allowed. All equipment must be thoroughly cleaned, and time must be allotted for this operation. Air detachment equipment will receive top priority. As a shop supervisor, you will find that your input and knowledge of the mechanic's capabilities will be vitally important.

INSPECTING

Equipment to be embarked should have minor repairs accomplished before embarkation. These units must be capable of operating for some time

without breakdown. Deadlined units on the sea echelon may be repaired under way. Equipment to be transported aboard aircraft will be delayed if fuel, oil, and water leaks are not detected during your inspection and corrected while in the shop.

PREPARING

Coordinated preplanned efforts between the mechanics, wash rack personnel, collateral equipment, and Equipment Operators are essential for a successful embark. All collateral equipment has to accompany the unit for which it was intended; spare tires have to be mounted. Depending on the method of transporting, dump truck headache boards need to be removed and secured in the bed, tops removed, windshields put down and taped, and exhaust stacks loosened. It is often required that the buckets and counterweights of front-end loaders be removed. Detailed data for each unit will be coordinated between the embark staff and the transporting unit.

STAGING

After the equipment has undergone the shop requirements, it might need to be loaded with designated equipment. All air-transported units must be weighed and the center of balance marked in the configuration in which it is to be loaded. After this has been accomplished, it maybe staged for convoy or movement in a place that is not congested and does not interfere with continued progress of equipment in process.

TRANSPORTING

Often a convoy movement is required to reach the transporting unit. This operation may be used to arrange equipment in load-number order if it was not done during the staging phase. Loading and tie-down are normally under the directions of the loadmaster of the aircraft or the boatswain of the ship.

HAZARDOUS MATERIALS

WARNING

Materials required to operate a maintenance organization are often toxic, corrosive, explosive, or highly flammable. These materials (paints, gases, acids, fuels,

lubricants, and so on) are to be located where they are convenient to the users, secured safely (locked up), and at a safe distance to minimize injury in the event of a mishap. Warning signs pertaining to hazardous materials are required to be posted. The shop safety petty officer is to be aware of all of the locations of these materials in the maintenance shop. All shop personnel have to be briefed and are to understand fully countermeasures to take in the event of an accident. Complete safety instructions for hazardous materials storage are listed in the U. S. Army Corps of Engineers *Safety and Health Requirements Manual*, EM 385-1-1.

STORAGE

Fuels may be stored in underground tanks, fuel bladders, or properly equipped fuel tankers. The method of disbursing fuels depends on whether the site is temporary or not. At a temporary site, drummed fuels may be used. When selecting a fueling site, consider the accessibility of vehicles requiring fuel. Tracklaying equipment and automotive equipment are usually fueled in separate areas to avoid congestion.

Paints and lubricants are inventoried by the supply department. However, you are responsible for storing those in use or drawn in large quantities. **Storing lubricants properly includes taking steps to prevent fire or contamination by water.** Paints should be stored away from flames. Provide a fire-resistant area for paints stored inside a building. A well-constructed metal CONEX box is generally suitable for small quantities. By using good housekeeping practices, you can help avoid accidents or fires.

Gases normally used by Construction Mechanics include oxygen, acetylene, MAPP-gas, helium, and butane. The U.S. Army Corps of Engineers *Safety and Health Requirements Manual*, EM 385-1-1 is the current reference for safe handling and storage of compressed gases.

WARNING

Oil and grease must NOT be allowed to come in contact with gases; if they do, they may explode or burn out of control.

Compressed gas containers will be segregated and stored in the manner prescribed at specific distances from each other and working areas.

Acid or electrolyte used in the battery shop is to be stored in an upright position on a stable platform. This space is to be well ventilated. A facility for quick drenching of the eyes is to be available in this area.

SPILLS AND CLEANUP

When spilled in the shop, fuels are hazardous. They cause fires and accidental falls and they contaminate air and water. Small spills can be cleaned with absorbents that must be disposed of properly. Good housekeeping means fewer accidents.

Spills at fueling stations are normally smaller than bulk fuel spills. They may be absorbed with sand or oil dry types of absorbents. These absorbents must be properly disposed of also.

Fueling spills spell fire! Hosing the affected area with water will dilute the fuel to a degree, but it will also spread the fuel over a larger area. Fuels may contaminate water systems as well as sewer systems. **Should a large quantity of volatile fuel enter a sewer system, notify proper authorities.**

Oil drums at fueling stations used by the Equipment Operators must have a catch trough for spillage. Oil caught in this way is placed in a container for waste oil. Waste oil from service stations, shops, and lubrication areas is disposed of by re-refining when possible.

Using waste oil as a dust or weed control agent is prohibited, because this oil often washes into water systems during heavy rains. Burning of waste oil contributes to air pollution and is prohibited. Re-using or burning waste oils is allowed in large power plants that can separate contaminants or blend the waste with fuel properly.

Field repair personnel are responsible for collecting oils and fuels drained during repair operations. **Spilled lubricants penetrate the soil and could reach the groundwater table.** Contaminating the groundwater table may harm local drinking water. Immobilize a ground spill by adding dry soil to soak up the spill. To prevent contamination of the water table, collect the waste lubricants and return them to a collection point for disposal. You must develop contingency plans in case of a hazardous material spill. OPNAVINST 4110.2 (series), *Hazardous Material Control and Management*, and OPNAVINST 5090.1 (series), *Environment and Natural Resources Protection Manual* provide detailed information.

DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO)

Do not let your maintenance area become the ALFA Company junk yard. Unneeded materials and CESE that have no further use, worn-out CESE components, batteries, tires, and so on, are to be turned in to the Defense Reutilization and Marketing Office (DRMO) to "clean house." Contact your supply officer and local DRMO for proper turn-in procedures.

CESE DISPOSAL

Disposition instructions for CESE assigned to an NMCB come from COMCBPAC Equipment Office in Port Hueneme, California, or COMCBLANT DET, Gulfport, Mississippi. Only upon receipt of these instructions may disposal be initiated.

- A. Follow the procedures outlined in the disposal letter/message.
- B. Remove all unit decals and stencils from the equipment.
- C. On or before the predetermined date in the disposal letter/message, using a DoD Form 1348-1 as a turn-in document, deliver the equipment, its attachments, and its history jacket to the nearest DRMO. (List on the 1348-1 all attachments accompanying the unit to DRMO.)

NOTE

Unless otherwise directed, all collateral equipment and attachments assigned to that particular unit will accompany the unit to DRMO.

- D. Upon completion of action, forward a copy of the disposal letter/message with a copy of the signed DD Form 1348-1 turn-in document as an enclosure to COMCBPAC Equipment

Office or COMCBLANT DET within 15 days of disposal action.

- E. Adjust your CESE inventory records, status boards, DTO files, DTO room, and so forth. Notify supply and the dispatch supervisor of your actions.

NOTE

Disposal letters/messages are not blanket cannibalization authority. If your shop needs parts from a piece of CESE going to DRMO, request authority from COMCBPAC Equipment Office or COMCBLANT DET to remove such parts.

HAZARDOUS MATERIALS DISPOSAL

Hazardous materials have special turn-in procedures. For instance, batteries must be drained of all electrolyte before turn-in. The electrolyte is turned in separately in a separate container. Both items, electrolyte and batteries, are to be palletized and marked "HAZARDOUS" before turn-in. If in doubt of any hazardous material turn-in procedures, contact your local DRMO office.

REFERENCES

Naval Construction Force Equipment Management Manual, NAVFAC P-404, Naval Facilities Engineering Command, Washington, D.C., 1988.

Naval Construction Force Manual, NAVFAC P-3 15, Naval Facilities Engineering Command, Washington, D.C., 1985.

U.S. Naval Construction Force Embarkation Manual, COMCBPAC/COMCBLANTINST 3120.1, 1988.

U.S. Naval Construction Force Equipment Management Manual, COMCBPAC/COMCBLANTINST 11200.1D, 1988.